HW#7&8: Distance/ Absolute Value/ Line Segments

Geometry

Due: Friday, September 18th

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_

1) Find *XY.*



2) Dave is a salesperson who needs to visit towns R, S, and T. On the map below, *RS* = 16.4 miles and   
*ST* = 1.5*RS*. Assume that Dave travels along the road shown.

a. Find the distance Dave travels if he starts at town R, visits towns S and T, and then returns to town R.



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| 3) Use a ruler to draw a segment that is 1.25 inches long. | 4) Use a ruler to measure the length of the segment to the nearest tenth of a centimeter. |

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| 5) On a number line, point L is located at 14, point M is located at -5, and point N is located at -19.  a. Draw a number line.  b. Sam found the length of segment LM to be 14. Do you agree with his answer? Why or why not? | c. Suppose point P is to the left of point N, and Point Q is to the right of point M on the number line. Is 14 units a reasonable distance between points P and Q? Why or why not? |

6) A person jogs along a straight path. Let A represent the point where the person starts from, let B represent the person’s current position, and let C represent the point where the path ends.

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| a. Draw and label a line segment that represents the situation. | b. If AC is 2500 feet and AB is 1375 feet, how much farther must the person jog to reach the end of the path? |